

What is claimed is:

1. A modem at an answering side that performs a transmission and reception of a signal with another modem at a calling side through a communication channel,  
5 comprising:

a transmission section that is configured to transmit a procedure signal specified in a predetermined ITU-T Recommendation;

10 a reception section that is configured to receive the signal transmitted from said another modem at the calling side;

20 a detection section that is configured to detect another procedure signal transmitted from said another modem at the calling side while or after said transmission section transmits a DIS signal specified in Recommendation T.30 from signals received in said reception section; and

25 an identification section that is configured to output an identification signal indicative of a type of Recommendation that said another modem at the calling side uses to a host, based on a detected result in said detection section,

wherein said modem shifts to an operation mode corresponding to an instruction of said host based on said identification signal.

2. The modem according to claim 1, wherein when the procedure signal detected in said detection section is

a CM signal specified in Recommendation V.8, based on said instruction of said host, said modem shifts to a communication procedure specified in a Recommendation that is appropriate for a communication with said another  
5 modem at the calling side, while when the procedure signal detected in said detection section is a procedure signal used in a data communication, based on said instruction of said host, said modem shifts to a data communication operation.

10 3. A modem at an answering side that performs a transmission and reception of a signal with another modem at a calling side through a communication channel, comprising:

a transmission section that is configured to  
15 transmit a procedure signal specified in a predetermined ITU-T Recommendation;

a reception section that is configured to receive the signal transmitted from said another modem at the calling side;

20 a detection section that is configured to detect another procedure signal transmitted from said another modem at the calling side while or after said transmission section transmits the procedure signal used in a data communication from signals received in said reception  
25 section; and

an identification section that is configured to output an identification signal indicative of a type of

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Recommendation that said another modem at the calling side uses to a host, based on a detected result in said detection section,

wherein said modem shifts to an operation mode  
5 corresponding to an instruction of said host based on said identification signal.

4. The modem according to claim 3, wherein when the procedure signal detected in said detection section is a CM signal specified in Recommendation V.8, based on  
10 said instruction of said host, the modem shifts to a communication procedure specified in a Recommendation that is appropriate for a communication with said another modem at the calling side.

5. A modem at an answering side that performs a  
15 transmission and reception of a signal with another modem at a calling side through a communication channel, comprising:

a transmission section that is configured to transmit a procedure signal specified in a predetermined  
20 ITU-T Recommendation;

a reception section that is configured to receive the signal transmitted from said another modem at the calling side;

a detection section that is configured to detect  
25 another procedure signal transmitted from said another modem at the calling side while or after said transmission section transmits a DIS signal specified in

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an identification section that is configured to output an identification signal indicative of a type of Recommendation that said another modem at the calling side uses to a host, based on a detected result in said detection section,

6. The modem according to claim 5, wherein when the procedure signal detected in said detection section is a CM signal specified in Recommendation V.8, based on said instruction of said host, the modem shifts to a communication procedure specified in a Recommendation that is appropriate for a communication with said another modem at the calling side, while when the procedure signal detected in said detection section is a procedure signal used in the data communication, based on said instruction of said host, the modem shifts to a data communication operation.

7. The modem according to claim 5, wherein according to said instruction of said host based on said identification signal, the modem shifts to an operation mode to continue a communication conforming to a Recommendation corresponding to said identification

signal, to discontinue said communication channel, or to return to a telephone mode.

8. The modem according to claim 5, wherein said detection section detects respective signals at a plurality of frequencies including a procedure signal expected from the procedure signal of which transmission is currently continued or finished and a procedure signal except an expected procedure signal.

9. A communication control apparatus provided with a modem at an answering side that performs a transmission and reception of a signal with another modem at a calling side through a communication channel, and a host which controls said modem, said modem comprising:

a transmission section that is configured to transmit a procedure signal specified in a predetermined ITU-T Recommendation;

a reception section that is configured to receive the signal transmitted from said another modem at the calling side;

a detection section that is configured to detect another procedure signal transmitted from said another modem at the calling side while or after said transmission section transmits a DIS signal specified in Recommendation T.30 or a procedure signal used in a data communication from signals received in said reception section; and

an identification section that is configured to

output an identification signal indicative of a type of Recommendation that said another modem at the calling side uses to a host, based on a detected result in said detection section,

5 said host comprising:

a control section that is configured to instruct said transmission section to transmit a procedure signal conforming to said predetermined ITU-T Recommendation, while switching an operation mode of said modem  
10 corresponding to the identification signal output from said identification section of said modem.

10. The communication control apparatus according to claim 9, said control section of said host shifts a communication procedure of said mode to a communication  
15 procedure specified in a Recommendation that is appropriate for a communication with said another modem at the calling side when the procedure signal detected in said detection section is a CM signal specified in Recommendation V.8, and shifts the communication  
20 procedure of said modem to a data communication operation when the procedure signal detected in said detection section is a procedure signal used in the data communication.

11. A communication terminal apparatus at an answering  
25 terminal that performs a transmission and reception of a signal and data with another communication terminal apparatus at a calling side through a communication

channel, comprising:

the communication control apparatus according to claim 9;

5 a recording unit that is configured to record image data received from said another communication terminal apparatus at the calling side through said communication channel; and

10 a scanning unit that is configured to scan image data to be transmitted to said another communication terminal apparatus at the calling side through said communication channel.

12. A method for controlling a communication with a modem at a calling side through a communication channel, comprising:

15 receiving a signal transmitted from said modem at the calling side while or after transmitting a DIS signal conforming to ITU-T Recommendation T.30 or a procedure signal used in a data communication;

20 detecting another procedure signal conforming to a predetermined ITU-T Recommendation from signals received from said mode at the calling side; and

shifting to a communication operation conforming to Recommendation V.8 when a detected procedure signal is a CM signal specified in Recommendation V.8, while  
25 shifting to a data communication operation when the detected procedure signal is a procedure signal used in the data communication.